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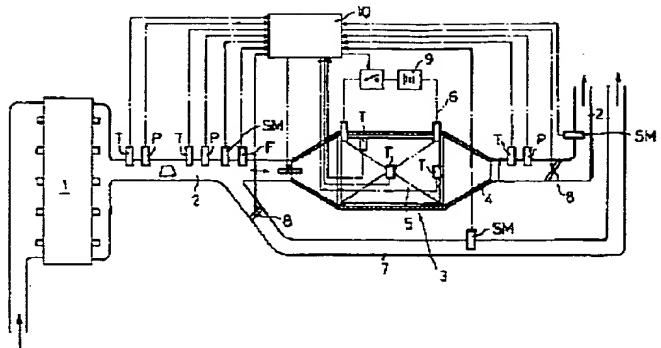
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TITLE : DIESEL PARTICULATE FILTER MADE
OF ELECTRICALLY CONDUCTIVE
CERAMICS AND MANUFACTURE
THEREOF



ABSTRACT : PURPOSE: To uniformly combust particulates, by making LaMnO_3 into a porous body for a filter which is used for a diesel particulate filter (DPF) made of electrically conductive ceramics.

CONSTITUTION: A particulate purifying device 3 is installed in an exhaust passage 2 for exhausting exhaust gas from a diesel engine 1. In this purifying device 3, a DPF 5 is incorporated into a casing 4, and a heating circuit 6 for combusting the collected particulate is provided. When the DPF 5 which has its filter porous body made of LaMnO_3 , is heated by carrying current to both the edges of the porous body which has caught the particulate such as carbon and smoke in the exhaust gas, the particulates are combusted uniformly and discarded and the inside of the porous body becomes free from the uncombusted particulate. Further, since the whole of the porous body made of the electric conductive ceramics is uniformly heated, the generation of breakage due to thermal stress can be prevented.

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